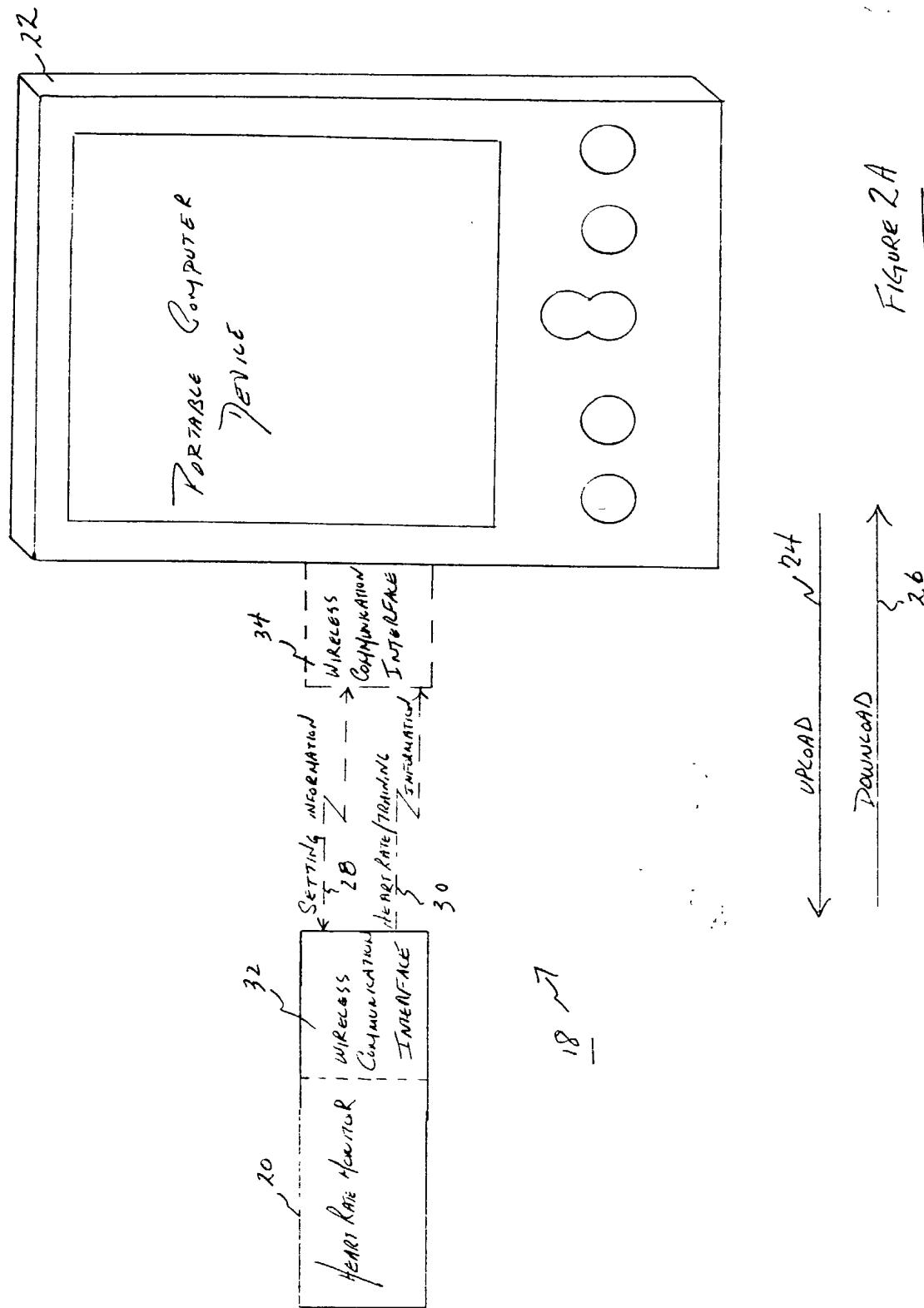
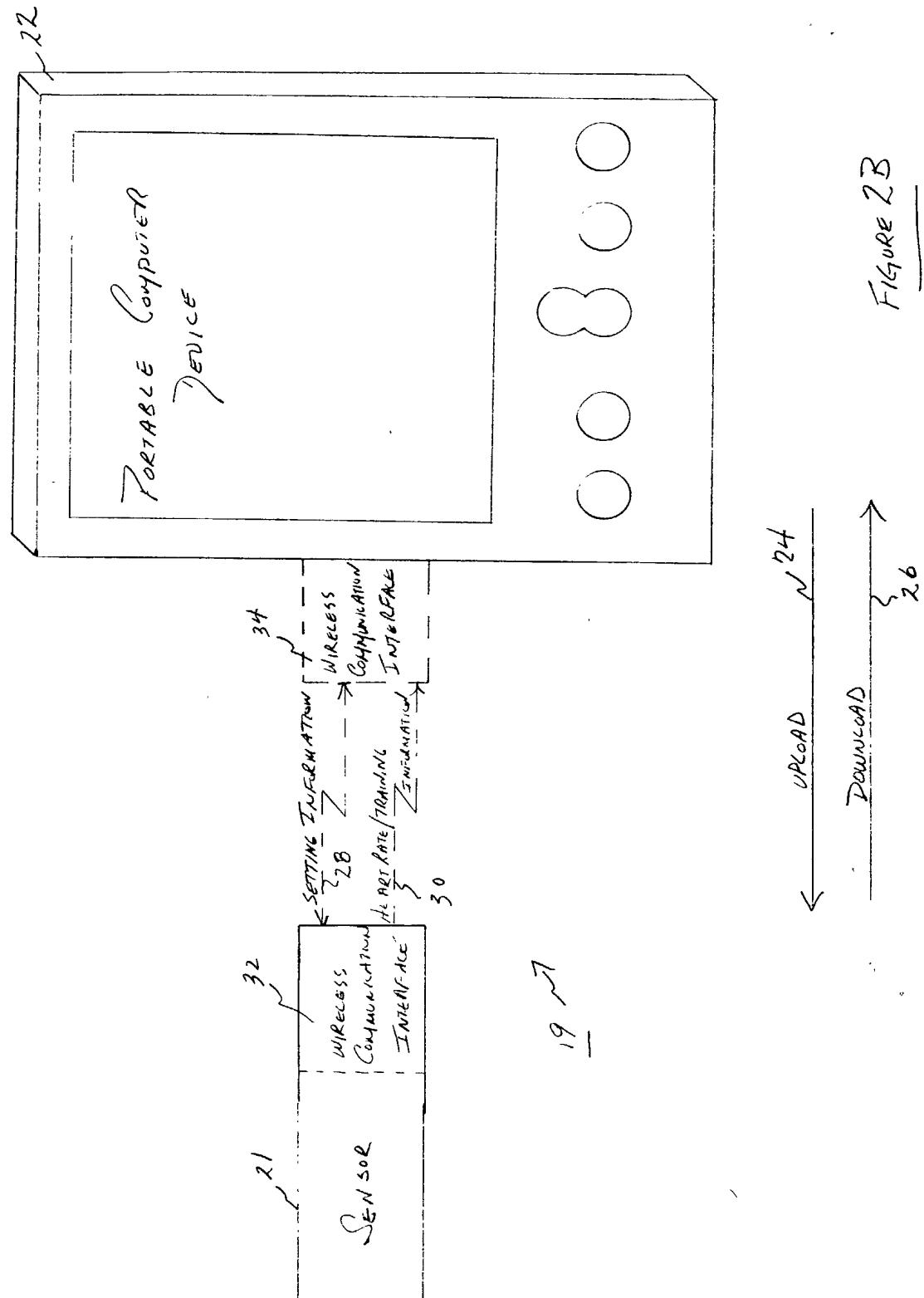


FIGURE 1 (PRIOR ART)





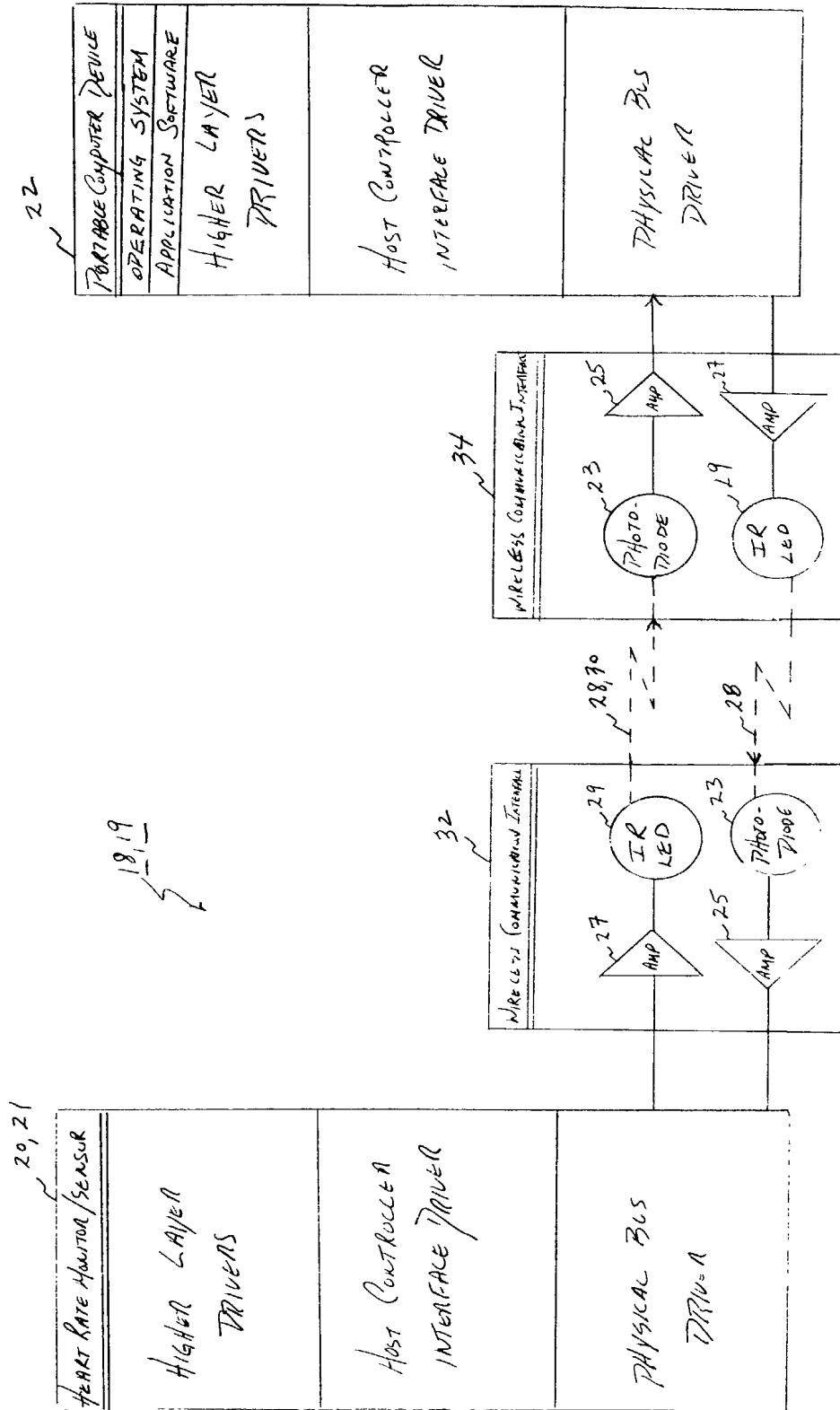


Figure 3

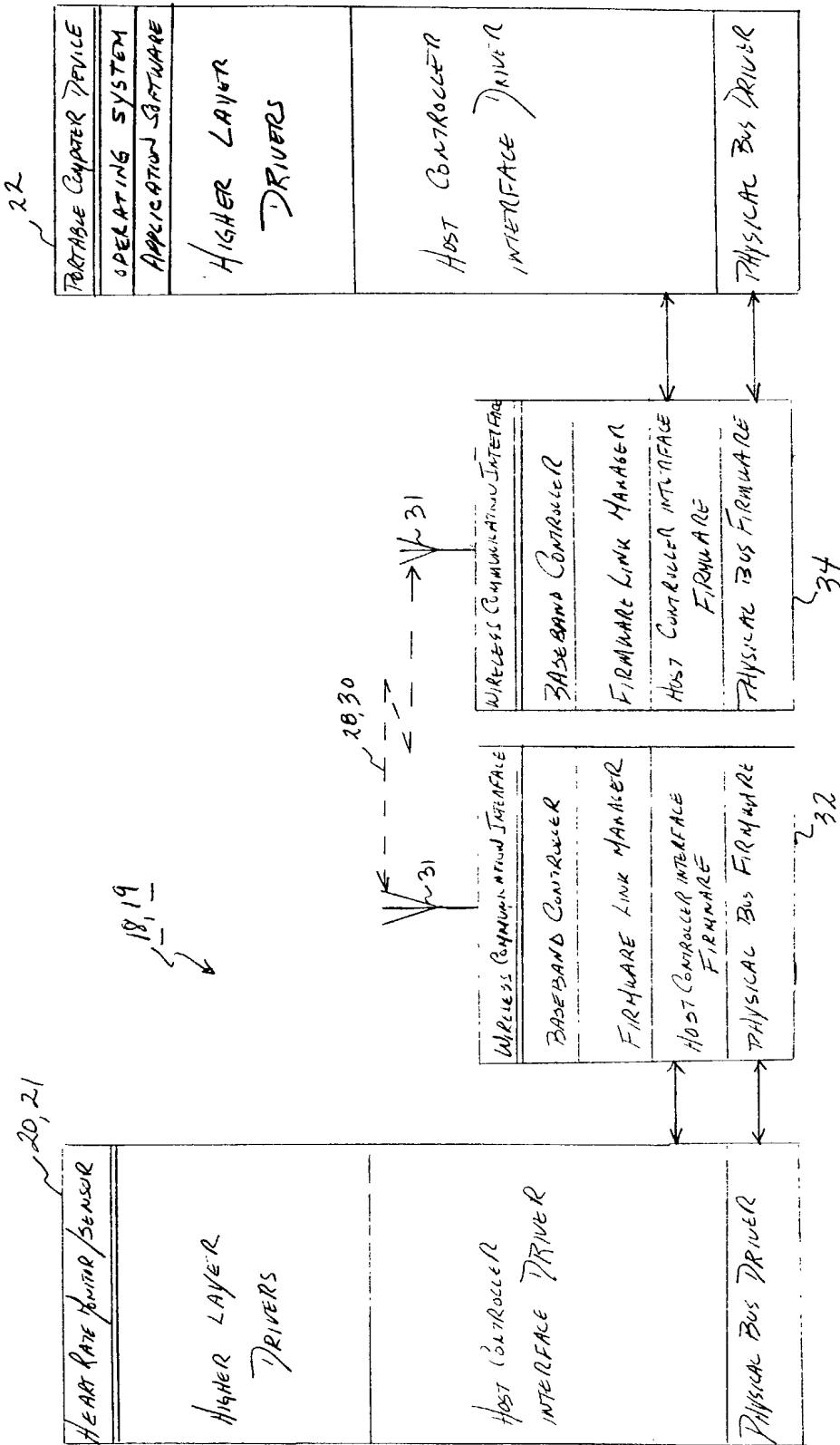


FIGURE 4

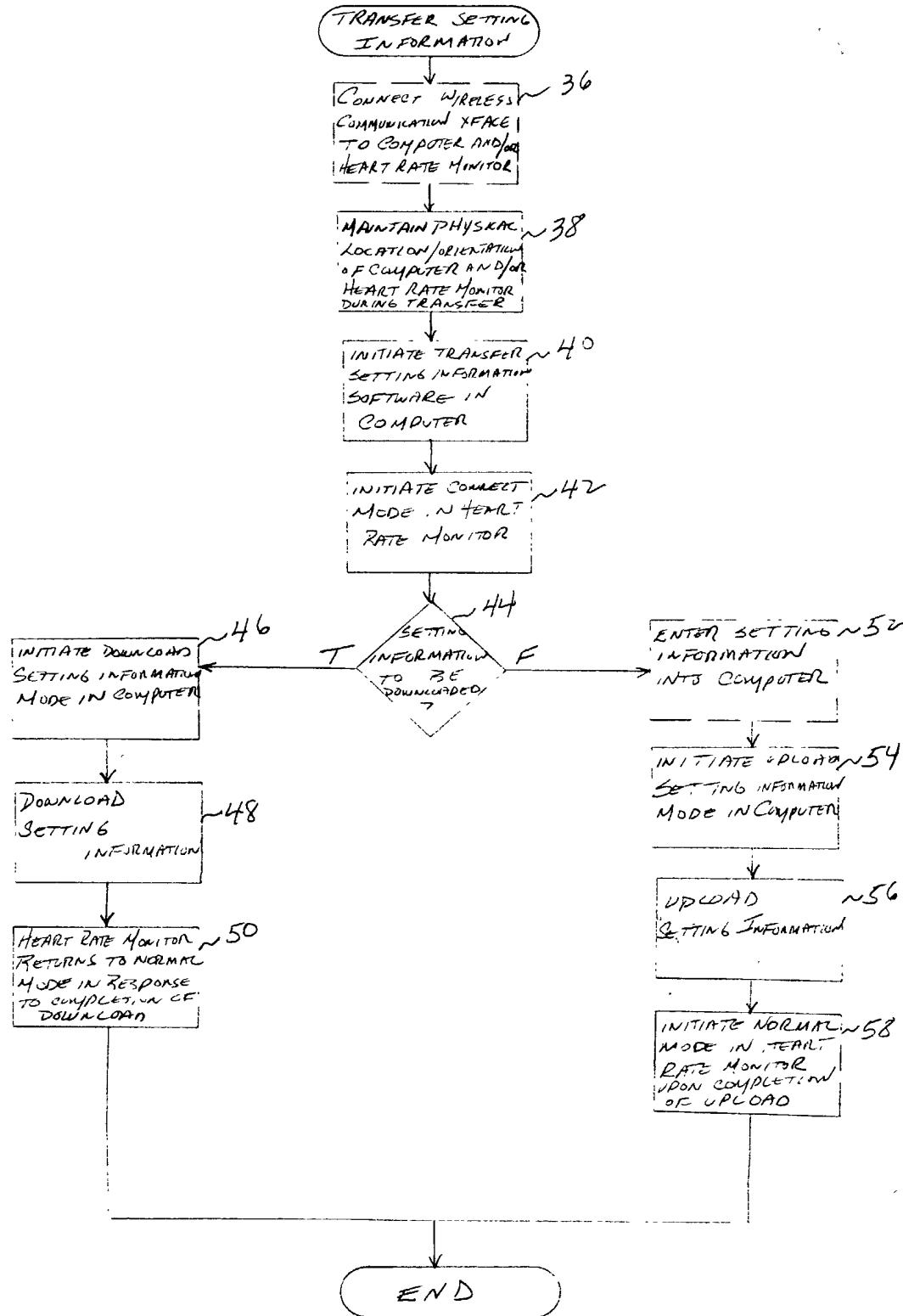


FIGURE 5

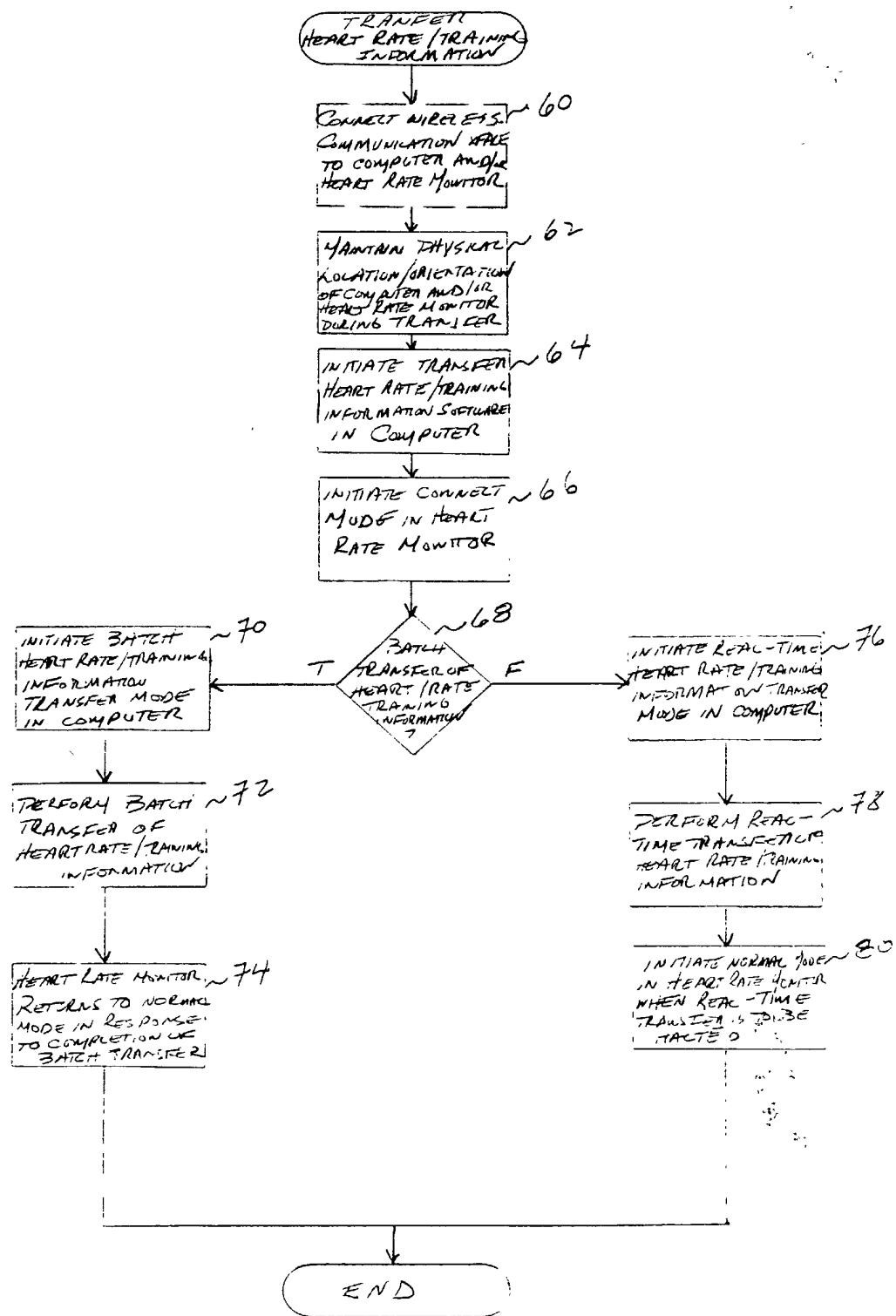


FIGURE 6

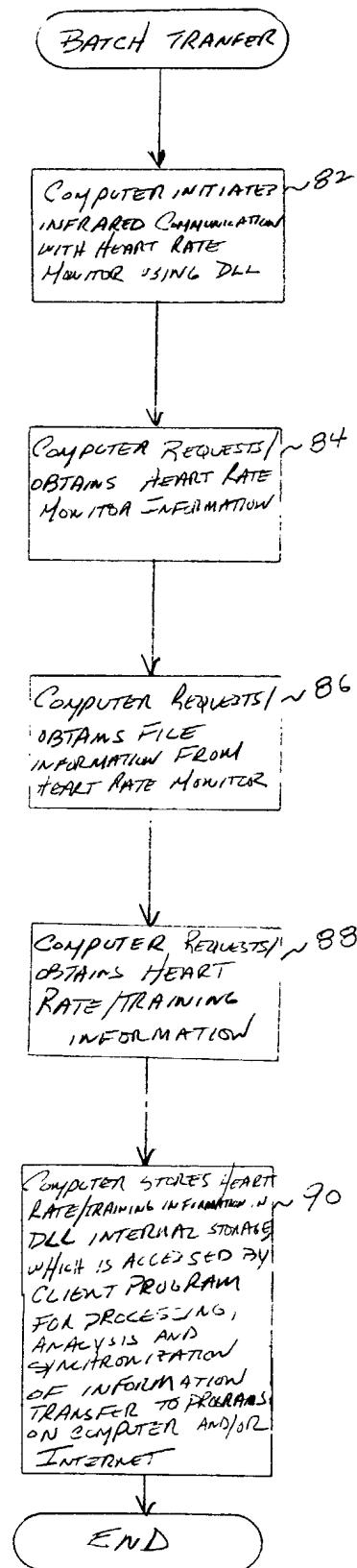


FIGURE 7

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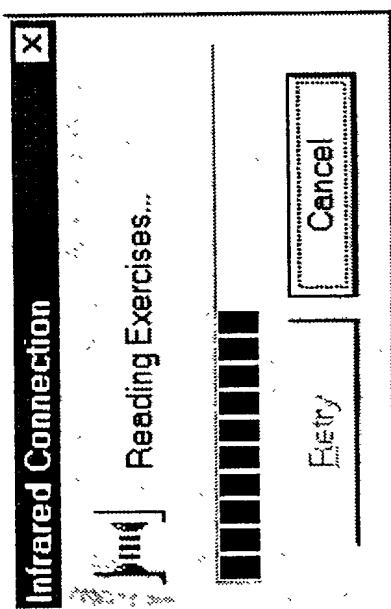


Figure 8

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Portable Computer Device

Infrared Communication
DYNAMIC LINK LIBRARY (DLL):

- CLIENT PROGRAM USES DLL AS IN-PROCESS SERVER TO COMMUNICATE THROUGH INFRARED PORT WITH HEART RATE MONITOR
- DLL PERFORMS TWO FUNCTIONS
 1. COMMUNICATION WITH HEART RATE MONITOR
 2. COMMUNICATION WITH CLIENT PROGRAM

- COMMUNICATION LINK STEPS

1. INITIATE INFRARED COMMUNICATION
2. OBTAIN HEART RATE MONITOR INFORMATION
3. OBTAIN FILE INFORMATION
4. OBTAIN HEART RATE INFORMATION

- DLL INTERNAL STORAGE CONTAINS DOWNLOADED INFORMATION FOR PROCESSING BY CLIENT PROGRAM

FIGURE 9

CLIENT PROGRAM:

- CALL DLL FUNCTIONS TO TRANSFER INFORMATION FROM HEART RATE MONITOR TO DLL INTERNAL STORAGE
- CALL DLL FUNCTIONS TO READ UPLOADED INFORMATION FROM DLL INTERNAL STORAGE
- DISPLAY AND ANALYZE INFORMATION IN VARIOUS WAYS
 - 1. GRAPHICAL ANALYSIS
 - 2. STATISTICAL ANALYSIS
 - TIME IN TARGET ZONE
 - TIME ABOVE TARGET ZONE
 - TIME BELOW TARGET ZONE
 - TIME AVERAGE HEART RATE
 - AVERAGE HEART RATE
- OPTIONALLY SYNCHRONIZE WITH COMPUTER FOR INFORMATION TRANSFER TO ADDITIONAL PROGRAM ON COMPUTER AND/OR INTERNET

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